The Examiner is respectfully requested to amend the above-identified application in the following manner.

IN THE CLAIMS

Please cancel claims 9 and 25-104, without prejudice or disclaimer of the subject matter presented therein.

Please amend claims 1, 10, 15, and 20 to read as follows. A marked-up copy of the amended claims, showing the changes made thereto, is attached.

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1. (Amended) A method of interpolating a first set of discrete sample values to generate a second set of discrete sample values using one of a plurality of interpolation kernels, wherein said interpolation kernel is selected depending on an edge strength indicator, an edge direction indicator and a local contrast indicator for each of said discrete sample values of said first set.

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10. (Amended) A method of interpolating image data, said method comprising the steps of:

accessing a first set of discrete sample values of said image data;

calculating kernel values for each of said discrete sample values using one of a plurality of kernels depending upon an edge orientation indicator, an edge strength indicator, and a local contrast indicator for each of said discrete sample values; and

convolving said kernel values with said discrete sample values to provide a second set of discrete sample values.

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15. (Amended) An apparatus for interpolating image data, said apparatus comprising:

means for accessing a first set of discrete sample values of said image data;

calculator means for calculating kernel values for each of said discrete sample values using one of a plurality of kernels depending upon an edge orientation indicator, an edge strength indicator, and a local contrast indicator for each of said discrete sample values; and

convolution means for convolving said kernel values with said discrete sample values to provide a second set of discrete sample values.

20. (Amended) A computer readable medium for storing a program for an apparatus which processes data, said processing comprising a method of interpolating image data, said program comprising:

code for accessing a first set of discrete sample values of said image data;

code for calculating kernel values for each of said discrete sample values using one of a plurality of kernels depending upon an edge orientation indicator, an edge strength indicator, and a local contrast indicator for each of said discrete sample values of said first set; and

code for convolving said kernel values with said discrete sample values to provide a second set of discrete sample values.

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